

**We Claim:**

1. A pharmaceutical composition comprising chitosan derived from fungal biomass having greater than 85 percent deacetylation of N-acetyl groups in the chitin.
2. A dietary composition comprising chitosan derived from fungal biomass having greater than 85 percent deacetylation of N-acetyl groups in the chitin.
3. A filtration article comprising chitosan derived from fungal biomass having greater than 85 percent deacetylation of N-acetyl groups in the chitin.
4. A film comprising chitosan derived from fungal biomass having greater than 85 percent deacetylation of N-acetyl groups in the chitin.
5. A fabric comprising chitosan derived from fungal biomass having greater than 85 percent deacetylation of N-acetyl groups in the chitin.
6. An agricultural product comprising chitosan derived from fungal biomass having greater than 85 percent deacetylation of N-acetyl groups in the chitin.

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